

AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions of claims in the application:

- 1 1. (Currently amended) A method of transporting voice, voiceband data and phone signaling  
2 over a network, the method comprising the steps of:  
3 converting analog phone signals into voice packets for transporting digitized voice,  
4 digitized voiceband data and digitized phone signaling, wherein said voice  
5 packets conform to a set of protocols that excludes Internet Protocol (IP);  
6 setting a field in a frame header of the voice packets associated with digitized voice and  
7 digitized voiceband indicating that the voice packets are to be transmitted at a  
8 highest level of priority of a local area network that supports levels of  
9 transmission priority for transmitting data; and  
10 transmitting said voice packets over a the local area network without a separate voice  
11 dedicated network and without a logically separate voice network that supports  
12 levels of transmission priority for transmitting data, wherein the voice packets  
13 associated with the digitized voice and digitized voiceband are transmitted at the  
14 highest level of priority as indicated by the setting of the field in the frame header.
- 1 2. (Currently amended) The method of Claim 1, wherein said local area network follows an  
2 HomePNA network protocol.
- 1 3. (Currently amended) The method of Claim 1, wherein said voice packets include packets  
2 that conform to an AAL2 format.
- 1 4. (Currently amended) The method of Claim 1, wherein the step of transmitting includes  
2 transmitting said voice packets over phone line inside wiring in a residence that is  
3 connected to one or more analog telephones.
- 1 5. Cancelled.

6. Cancelled.

7. (Original) The method of Claim 1, wherein the steps of converting and transmitting are performed by a phone line adaptor connected to a separate device that transmits said analog phone signals to said phone line adaptor.

8. (Currently amended) A network device that can transmit voice, voiceband data and phone signaling via a network, comprising:  
a Codec configured to receive analog phone signals and generate digitized voice, and digitized voiceband data;  
a Subscriber Line Interface Circuit (SLIC) configured to receive analog phone signaling and generate digitized phone signaling;  
a network interface for interfacing to an LAN that follows a local area network protocol that supports levels of transmission priority for transmitting data without a separate voice dedicated network and without a logically separate voice network;  
said network device configured to generate voice packets that include said digitized voice, digitized voiceband data and digitized phone signaling, by setting a field in a frame header of the voice packets associated with digitized voice and digitized voiceband indicating that the voice packets are to be transmitted at a highest level of priority of the local area network, wherein said voice packets conform to a set of protocols that excludes Internet Protocol (IP);  
and  
said network device configured to transmit said voice packets via said local area network, wherein the voice packets associated with the digitized voice and digitized voiceband are transmitted at the highest level of priority as indicated by the setting of the field in the frame header.

9. (Original) The network device of Claim 8, wherein said local area network protocol is a HomePNA network protocol.

1 10. (Currently amended) The network device of Claim 8, wherein said voice packets also  
2 conform to an AAL2 format.

1 11. (Original) The network device of Claim 8, wherein said LAN uses as a transmission  
2 medium phone line inside wiring in a home that is connected to one or more analog  
3 telephones.

1 12. Cancelled.

1 13. Cancelled.

1 14. (Original) The network device of Claim 8, wherein said network device is a phone  
2 line adapter configured to receive said phone analog signals from a separate device  
3 connected to said phone line adaptor.

1 15. (Currently amended) A network device that can transmit digitized voice, digitized  
2 voiceband data, and digitized phone signaling via a network, comprising:  
3 a Codec configured to receive analog phone signals and generate digitized voice and  
4 digitized voiceband data;  
5 a Subscriber Line Interface Circuit (SLIC) configured to receive analog phone signaling  
6 and generate digitized versions of said analog phone signaling.  
7 a means for interfacing to an LAN that follows a local area network protocol that  
8 supports levels of transmission priority for transmitting data and that uses inside  
9 wiring as a transmission medium without a separate voice dedicated network and  
10 without a logically separate voice network;  
11 a means for generating voice packets for transporting digitized voice, digitized voiceband  
12 data and digitized phone signaling, by setting a field in a frame header of the  
13 voice packets associated with digitized voice and digitized voiceband indicating  
14 that the voice packets are to be transmitted at a highest level of priority of the

15            local area network, wherein said voice packets conform to a set of protocols that  
16            excludes Internet Protocol (IP); and  
17        a means for transmitting said voice packets via said local area network, wherein the voice  
18            packets associated with the digitized voice and digitized voiceband are  
19            transmitted at the highest level of priority as indicated by the setting of the field in  
20            the frame header.

1        16.        Cancelled.

1        17.        Cancelled.

1        18.        (Currently amended) A computer-readable medium carrying one or more sequences of  
2            instructions for transporting digitized voice, digitized voiceband data and digitized phone  
3            signaling over a network, wherein execution of the one or more sequences of instructions  
4            by one or more processors causes the one or more processors to perform the steps of:  
5            converting analog phone signals into voice packets for transporting digitized voice,  
6            digitized voiceband data and digitized phone signaling, wherein said voice  
7            packets conform to a set of protocols that excludes Internet Protocol (IP);  
8            setting a field in a frame header of the voice packets associated with digitized voice and  
9            digitized voiceband indicating that the voice packets are to be transmitted at a  
10           highest level of priority of a local area network that supports levels of  
11           transmission priority for transmitting data; and  
12           transmitting said voice packets over a the local area network without a separate voice  
13           dedicated network and without a logically separate voice network that supports  
14           levels of transmission priority for transmitting data, wherein the voice packets  
15           associated with the digitized voice and digitized voiceband are transmitted at the  
16           highest level of priority as indicated by the setting of the field in the frame header.

1        19.        (Original)        The computer-readable media of Claim 18, wherein said local area  
2            network follows an HomePNA network protocol.

1 20. (Currently amended) The computer-readable media of Claim 18, wherein said voice  
2 packets include packets that conform to an AAL2 format.

1 21. (New) The method of Claim 1, wherein the step of transmitting includes transmitting  
2 said voice packets over phone line inside wiring in a residence that is connected to one or  
3 more analog telephones and one or more computer devices.

1 22. (New) The network device of Claim 8, wherein said LAN uses as a transmission medium  
2 phone line inside wiring in a home that is connected to one or more analog telephones  
3 and one or more network devices.